

CLAIMS

1. A display apparatus for receiving at least a video signal by wireless communication,

the display apparatus, comprising:

wireless receiving means for receiving the video signal that is wirelessly transmitted;

display means for displaying an image in accordance with at least the video signal;

jamming signal detecting means for detecting, in an operating frequency band used for the wireless communication, a jamming signal other than the video signal; and

display control means for causing the display means to display, in response to the detection of the jamming signal, jamming signal information indicating presence of the jamming signal.

2. The display apparatus as set forth in claim 1, wherein:

the jamming signal detecting means detects the jamming signal for each communication channel available in the operating frequency band; and

the display control means causes the display means to display, as the jamming signal information, information indicating the presence of the jamming signal for said

each communication channel.

3. The display apparatus as set forth in claim 1 or 2,
wherein:

the jamming signal detecting means compares a level
of the jamming signal with a plurality of predetermined
levels so as to detect a jamming signal level; and

the display control means causes the display means
to display the jamming signal information in accordance
with the jamming signal level.

4. The display apparatus as set forth in claim 3,
wherein:

the display control means causes the display means
to display the jamming signal information numerically in
accordance with the jamming signal level.

5. The display apparatus as set forth in claim 3,
wherein:

the display control means causes the display means
to display the jamming signal information graphically in
accordance with the jamming signal level.

6. The display apparatus as set forth in any one of
claims 3 to 5, wherein:

the display control means changes a display format, such as a color, of the jamming signal information in accordance with the jamming signal level, and causes the display means to display the jamming signal information in the display format.

7. The display apparatus as set forth in any one of claims 3 to 6, wherein:

the plurality of predetermined levels are able to be arbitrarily set and changed.

8. A wireless transmitting and receiving system for transmitting and receiving at least a video signal by wireless communication,

the wireless transmitting and receiving system, comprising:

a wireless transmitting apparatus for wirelessly transmitting the video signal and a recognition information signal; and

a display apparatus, which includes:

wireless receiving means for receiving the video signal and the recognition information signal;

display means for displaying an image in accordance with at least the video signal;

recognition information detecting means for detecting

the recognition information signal;

jamming signal detecting means for detecting, in an operating frequency band used for the wireless communication, a jamming signal other than the video signal; and

display control means for, when the video signal is not normally received, causing the display means to display abnormality information indicating an abnormal state,

when the jamming signal detecting means detects the jamming signal, the display control means causing the display means to display, as the abnormality information, jamming signal information indicating presence of the jamming signal.

9. The wireless transmitting and receiving system as set forth in claim 8, wherein:

the jamming signal detecting means detects the jamming signal for each communication channel available in the operating frequency band; and

the display control means causes the display means to display, as the jamming signal information, information indicating the presence of the jamming signal for said each channel.

10. The wireless transmitting and receiving system as set forth in claim 8 or 9, wherein:

the jamming signal detecting means compares a level of the jamming signal with a plurality of predetermined levels so as to detect a jamming signal level; and

the display control means causes the display means to display the jamming signal information in accordance with the jamming signal level.

11. The wireless transmitting and receiving system as set forth in claim 10, wherein:

the display control means causes the display means to display the jamming signal information numerically in accordance with the jamming signal level.

12. The wireless transmitting and receiving system as set forth in claim 10, wherein:

the display control means causes the display means to display the jamming signal information graphically in accordance with the jamming signal level.

13. The wireless transmitting and receiving system as set forth in claim any one of claims 10 to 12, wherein:

the display control means changes a display format, such as a color, of the jamming signal information in

accordance with the jamming signal level, and causes the display means to display the jamming signal information in the display format.

14. The wireless transmitting and receiving system as set forth in any one of claims 10 to 13, wherein:

the plurality of predetermined levels are able to be arbitrarily set and changed.

15. The wireless transmitting and receiving system as set forth in any one of claims 8 to 14, wherein:

when the recognition information detecting means detects another recognition information signal different from the recognition information signal transmitted from the wireless transmitting apparatus, the display control means causes the display means to display, as the abnormality information, information indicating that there is another wireless transmitting apparatus transmitting said another recognition information signal.

16. The wireless transmitting and receiving system as set forth in any one of claims 8 to 15, wherein:

when the recognition information detecting means does not detect said another recognition information signal different from the recognition information signal

transmitted from the wireless transmitting apparatus, the jamming signal detecting means carries out detection of the jamming signal.

17. The wireless transmitting and receiving system as set forth in any one of claims 8 to 16, wherein:

when the jamming signal detecting means does not detect the jamming signal, the display control means causes the display means to display, as the abnormality information, information indicating that it is not possible to receive any signal.

18. A display apparatus for receiving at least a video signal by wireless communication,

the display apparatus, comprising:

wireless receiving means for receiving the video signal that is wirelessly transmitted;

jamming signal detecting means for detecting, in an operating frequency band used for the wireless communication, a jamming signal other than the video signal; and

jamming signal information outputting means for, in response to the detection of the jamming signal, outputting jamming signal information indicating presence of the jamming signal.

19. The display apparatus as set forth in claim 18,
wherein:

the jamming signal information outputting means
sends the jamming signal information to superimposition
display means for displaying the jamming signal
information superimposed onto the image displayed by the
display means.

20. A display apparatus for (i) receiving at least a
video signal by wireless communication and (ii) displaying
an image in accordance with the video signal,

the display apparatus, comprising:

jamming signal detecting means for detecting, in an
operating frequency band used for the wireless
communication, a jamming signal other than the video
signal.

21. A display method for (i) receiving at least a video
signal by wireless communication and (ii) displaying an
image,

the display method, comprising:

a first step of determining whether or not the video
signal that is wirelessly transmitted is unable to be
received;

a second step of, when it is determined in the first

step that the video signal is unable to be received, determining whether or not a signal other than the video signal is detected in an operating frequency band used for the wireless communication; and

a third step of carrying out a display in accordance with a result of the determination made in the second step, so as to inform that it is not possible to receive any signal.

22. A display control program for (i) receiving at least a video signal by wireless communication and (ii) displaying an image,

the display control program causing a computer to carry out:

a step of determining whether or not the video signal that is wirelessly transmitted is unable to be received;

a step of, when it is determined in the first step that the video signal is unable to be normally received, determining whether or not a signal other than the video signal is detected in an operating frequency band used for the wireless communication; and

a step of carrying out a display in accordance with a result of the determination made in the second step, so as to inform that it is not possible to receive any signal.

23. A computer-readable recording medium storing
the display control program as set forth in claim 22.